Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-03-05** **Date: 05/01/2018**

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04

Agency : Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.

Customer's Reference : EE(Project)/Ynk Zone/WO/80/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-01-18

Sample ID No : 2018-01-03-05 /01

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/12/2017	05/01/2018	150.21 X 150.20 X 150.20	22562	8.324	527.9	23.4	23.5
2	M30 Concrete	M30	29/12/2017	05/01/2018	150.11 X 150.16 X 150.18	22541	8.267	520.7	23.1	
3	M30 Concrete	M30	29/12/2017	05/01/2018	150.24 X 150.28 X 150.29	22578	8.413	539.6	23.9	

Note:

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Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/01/2018

Lab ID	:	**CP-2018-01-03-05**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04
Agency	:	Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-18
Sample ID No	:	2018-01-03-05 /02
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/12/2017	26/01/2018	150.19 X 150.13 X 150.16	22548	8.267	732.8	32.5	31.8
2	M30 Concrete	M30	29/12/2017	26/01/2018	150.22 X 150.25 X 150.21	22571	8.354	715.5	31.7	
3	M30 Concrete	M30	29/12/2017	26/01/2018	150.14 X 150.16 X 150.20	22545	8.289	701.2	31.1	

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-03-05** **Date: 05/01/2018**

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04

Agency : Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.

Customer's Reference : EE(Project)/Ynk Zone/WO/80/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-01-18

Sample ID No : 2018-01-03-05 /03

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/12/2017	05/01/2018	151.22 X 150.76 X 150.55	22798	8.176	506.1	22.2	22.6
2	M30 Concrete	M30	29/12/2017	05/01/2018	150.81 X 149.83 X 151.09	22567	8.098	521.3	23.1	
3	M30 Concrete	M30	29/12/2017	05/01/2018	151.37 X 151.99 X 150.38	22568	8.156	505.5	22.4	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-03-05** **Date: 26/01/2018**

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04

Agency : Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.

Customer's Reference : EE(Project)/Ynk Zone/WO/80/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-01-18

Sample ID No : 2018-01-03-05 /04

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/12/2017	26/01/2018	150.44 X 150.34 X 150.87	22617	8.150	710.2	31.4	31.8
2	M30 Concrete	M30	29/12/2017	26/01/2018	150.21 X 150.21 X 150.29	22563	8.218	726.5	32.2	
3	M30 Concrete	M30	29/12/2017	26/01/2018	150.77 X 150.35 X 150.89	22668	8.299	723.1	31.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/01/2018

Lab ID	:	**CP-2018-01-03-05**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04
Agency	:	Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-18
Sample ID No	:	2018-01-03-05 /05
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/12/2017	05/01/2018	149.35 X 148.75 X 149.49	22216	8.14	495.4	22.3	22.7
2	M30 Concrete	M30	29/12/2017	05/01/2018	150.2 X 151.2 X 149.85	22710	8.165	533.7	23.5	
3	M30 Concrete	M30	29/12/2017	05/01/2018	149.5 X 150.1 X 151.1	22440	8.09	502.7	22.4	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-03-05** **Date: 26/01/2018**

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04

Agency : Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.

Customer's Reference : EE(Project)/Ynk Zone/WO/80/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-01-18

Sample ID No : 2018-01-03-05 /06

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/12/2017	26/01/2018	151.04 X 151.22 X 149.72	22840	8.108	728.6	31.9	32.3
2	M30 Concrete	M30	29/12/2017	26/01/2018	151.55 X 150.62 X 150.86	22826	8.176	739.6	32.4	
3	M30 Concrete	M30	29/12/2017	26/01/2018	150.67 X 150.52 X 150.87	22679	8.116	739.3	32.6	

Note:

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Quality Manager

****End of Report****

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-12-19-05** **Date: 22-12-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04
Agency	:	Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.
Customer Reference	:	EE(Project)/Ynk Zone/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-17
Sample ID No	:	2017-12-19-05/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	19-12-17
Oven Dry Weight	:	10120 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	862	862	8.5	91.5	80-100
26.5	1502	2364	23.4	76.6	55-90
9.5	1715	4079	40.3	59.7	35-65
4.75	1406	5485	54.2	45.8	25-55
2.36	1922	7407	73.2	26.8	20-40
0.425	1592	8999	88.9	11.1	10-25
0.075	926	9925	98.1	1.9	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.85%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
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All information Furnished by Customer/ Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-19-05** **Date: 22-12-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04
Agency	:	Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-17
Sample ID No	:	2017-12-19-05 /01
Sample Type	:	Zuari 53grade cment
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-12-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.25	–
2	Finess by Air permeablity method (m^2/kg,Min)	275.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-12-19-05** **Date: 17-01-18**

Customer : Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.

Address : Project Sub division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04

Agency : Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.

Customer's Reference : EE(Project)/Ynk Zone/WO/80/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-12-17

Sample ID No : 2017-12-19-05 /01

Sample Type : Zuari 53grade cment

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 20-12-17

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

Note:
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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-19-05** **Date: 22-12-17**
Customer	:	Assistant Executive Engineer, Project Sub division, BBMP, Bangalore.
Address	:	Project Sub division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains in sanitary core B sector in Yelahanka New Town in Ward no.04
Agency	:	Sri. R. Subramani, No.105, 3rd Circular road, Nandini layout, Bangalore-560096.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-12-17
Sample ID No	:	2017-12-19-05 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	453	453	3.0	97.0	90-100
3	20 mm	5285	5738	38.3	61.7	30-70
4	10 mm	4683	10421	69.5	30.5	10-35
5	4.75 mm	4258	14679	97.9	2.1	0-5
6	Pan	321	15000	100.0	0	---

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